Registration Form:

Detailed agenda and instructions may be found on our web-site:
http://cgsr.llnl.gov/

Name

Name preferred on name tag

Title

Organization

Street Address

City State Zip

Citizenship

Office Phone

Fax

Email

Specific Expertise or Interest: (circle one or more)

A. Conversion,Enrichment, Fuel Fab. & Transp.
B. Reactor Core, Operation, Fuel
C. Disposition, Reprocessing, Waste, Spent Fuel
D. Other : List _____

Registration due by May 1, 1999
(Non-US citizens by April 20, 1999)

Send Information To: (E-mail/Fax)

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Center for Global Security Research
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Livermore, CA 94551
Fax: 925-422-5252
Tel: 925-422-6141

CGSR
Center for Global Security Research

Hotels

A block of rooms will be held at the following hotels until the date indicated. Please make your own reservation directly with the hotel. Refer to "LLNL Nonproliferation Conference" when registering. Transportation to/from hotel and the workshop will be provided. If you need this transportation, fax or e-mail your hotel information to us.

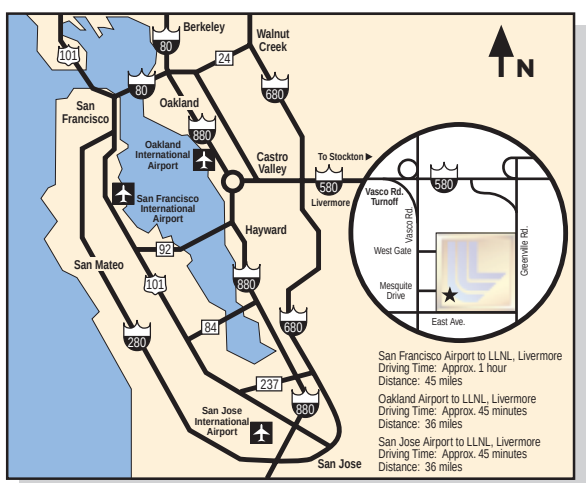
Crowne Plaza
11950 Dublin Canyon Rd.
Pleasanton, CA
925-847-6000
Conf. rate $85.00
Reserve by 5/11/99

Monarch Best Western
6680 Regional
Dublin, CA
925-828-7750
Conf. rate $85.00
Reserve by 5/17/99

Hampton Inn
2850 Constitution Dr.
Livermore, CA
925-606-6400
Conf. rate $88.00
Reserve by 5/17/99

Transportation to and from airports is available at your expense from:

Black Tie Limousine..... 925-847-0747
New Century..... 408-881-0100
Airport Connections..... 650-401-8300



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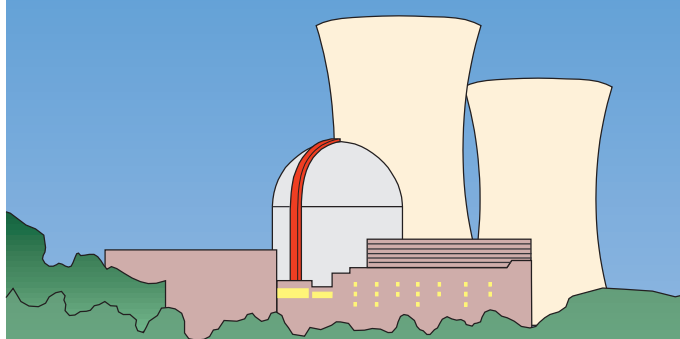
Proliferation-Resistant Nuclear Power Systems:

A Workshop on New Ideas



June 2–4, 1999
Livermore, California

CGSR
Center for Global Security Research
Lawrence Livermore National Laboratory

Proliferation-Resistant Nuclear Power Systems: A Workshop on New Ideas

June 2-4, 1999 (two and one-half days)
Lawrence Livermore National Laboratory
7000 East Avenue
Livermore, CA 94550

Hosted by:

Ronald F. Lehman II
Center for Global Security Research
Lawrence Livermore National Laboratory

Invited Participants:

Participants and speakers knowledgeable about the nuclear fuel cycle, nuclear power and/or nuclear proliferation technology and policies have been invited from US and international government agencies, national laboratories, research universities, research centers, and industry.

For Information:

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PO Box 808, L-189
Livermore, CA 94551

Workshop Interaction Web-Site:

http://cgsr.llnl.gov/

Context

The rapidly growing power needs of the developing world are likely to be met to some extent with nuclear power. Whether small or large systems, the large and growing amount of plutonium in spent fuel remains of concern to both the developed and developing world. There is disagreement among technologists and policymakers about the proliferation resistance of the fuel cycle. In addition, US influence in this important area is declining, and the US has found neither acceptable goals nor solutions to change this.

This Workshop will explore and assess technology ideas and options that may help reduce the proliferation risk of nuclear systems; or may assist institutional and policy approaches to reduce that risk. To facilitate this objective, we will assemble a broad spectrum of technologists, analysts, and policymakers concerned with nonproliferation. This workshop is planned as the first in a series.

Purpose

The workshop will seek answers to the questions:

- What do we mean by nuclear proliferation and proliferation resistance?
  - What metrics are useful for assessing proliferation resistance?
  - What are meaningful goals and solutions?
- Can nuclear power systems and/or sub-systems be developed that are more resistant to proliferation than those in existence or being installed today?
  - What will be the barriers to such systems?
  - How can these solutions be applied to research, test, and isotope production reactors?

Workshop Agenda

Proliferation and Proliferation Resistance

✔ Plenary Session
- The current approach to safeguards
- Safeguard challenges of the 21st Century
- Proliferation threat
- US industrial perspective
- International industrial perspective
- DOE perspective

Technology

✔ Plenary Session
- Attributes and metrics
- Proliferation issues addressed by technology
- Barriers to implementation
- Requirements
  - Economics, safety, waste
- Why have some technologies not been implemented?

✔ Breakout Sessions
- New directions and/or technologies

Goals and Solutions

✔ Plenary Session (1/2 day)
- Rapporteurs' reports from breakout sessions
- Panel discussion
  - Implementation
  - Implications for policy
  - Institutional issues
- Summary

Web-Site Interaction and Report

Relevant and timely papers relating to the subject or introduced at the workshop will be posted as soon as possible before June 1 at the Center web-site. Participants are asked to read and be prepared to comment on these reports. Summaries and results will be posted after the workshop and a report published.